

Amendments to the Claims:

This listing of claims will replace all prior versions of claims in the application:

Listing of Claims:

Claims 1-47. (Canceled).

Claim 48. (Previously Presented): A method of extracting glucosinolates and isothiocyanates from plant tissue comprising homogenizing said plant tissue in an excess of a mixture of dimethyl sulfoxide, acetonitrile and dimethylformamide at a temperature sufficient to inactivate myrosinase enzyme activity.

Claim 49. (Previously Presented): The method of claim 48, wherein the ratio of dimethyl sulfoxide:acetonitrile:dimethylformamide is 1:1:1.

Claim 50. (Previously Presented): The method of claim 48, wherein said temperature is between 0°C and the freezing temperature of the extraction mixture.

Claim 51. (Previously Presented): The method of claim 48, wherein said temperature is between -50°C and the freezing temperature of the extraction mixture.

Claim 52. (Canceled)

Claim 53. (Currently Amended): The method of claim 48, ~~claim 52~~, wherein said plant tissue is selected from the group consisting of cruciferous sprouts measured after 3 days of growth, cruciferous seeds, plants or plant parts.

Claim 54. (Previously Presented): The method of claim 53, wherein said sprouts, seeds, plants or plant parts have at least 200,000 units per gram fresh weight of Phase 2 enzyme-inducing potential.

Claim 55. (Previously Presented): The method of claim 53, wherein said sprouts, seeds, plants or plant parts have at least 300,000 units per gram fresh weight of Phase 2 enzyme-inducing potential.

Claim 56. (Previously Presented): The method of claim 53, wherein said sprouts, seeds, plants or plant parts have at least 400,000 units per gram fresh weight of Phase 2 enzyme-inducing potential.

Claim 57. (Previously Presented): The method of claim 53, wherein said sprouts, seeds, plants or plant parts have at least 500,000 units per gram fresh weight of Phase 2 enzyme-inducing potential.

Claim 58. (Currently Amended): A method of making a food product comprising extracting glucosinolates and isothiocyanates from cruciferous plant tissue having at least 200,000 units per gram fresh weight of Phase 2 enzyme-inducing potential, recovering said glucosinolates and isothiocyanates and adding said glucosinolates and isothiocyanates to food;

wherein said extracting comprises contacting said plant tissue with a non-toxic solvent at a temperature sufficient to inactivate myrosinase enzyme activity.

Claim 59. (Previously Presented): The method according to claim 58, wherein said solvent is water.

Claim 60. (Previously Presented): The method of claim 59, wherein said water is at 100°C.

Claim 61. (Previously Presented): The method according to claim 58, wherein said solvent is liquid carbon dioxide.

Claim 62. (Previously Presented): The method according to claim 58, wherein said solvent is ethanol.

Claim 63. (Previously Presented): The method of claim 58, wherein said plant tissue is selected from the group consisting of cruciferous sprouts measured after 3 days of growth, cruciferous seeds, plants and plant parts.

Claim 64. (Canceled).

Claim 65. (Previously Presented): The method of claim 63, wherein said sprouts, seeds, plants or plant parts have at least 300,000 units per gram fresh weight of Phase 2 enzyme-inducing potential.

Claim 66. (Previously Presented): The method of claim 63, wherein said sprouts, seeds, plants or plant parts have at least 400,000 units per gram fresh weight of Phase 2 enzyme-inducing potential.

Claim 67. (Previously Presented): The method of claim 63, wherein said sprouts, seeds, plants or plant parts have at least 500,000 units per gram fresh weight of Phase 2 enzyme-inducing potential.

Claim 68. (Previously Presented): The method of claim 58 wherein said food product is selected from the group consisting of a bread, a drink, a soup, a salad, a sandwich and a cereal.

Claim 69. (Previously Presented): The method of claim 68 wherein said drink is a tea.

Claim 70. (Previously Presented): The method of claim 58 wherein said extracting further comprises homogenizing said plant tissue with said non-toxic solvent.

Claim 71. (Previously Presented): The method of claim 63 wherein said sprouts, seeds, plants or plant parts have at least 250,000 units per gram fresh weight of Phase 2 enzyme-inducing potential.

Claim 72. (New) The method of claim 63, wherein said plants are broccoli.

Claim 73. (New) The method of claim 63, wherein said plant parts are from broccoli.

Claim 74. (New) The method of claim 63, wherein said cruciferous sprouts are broccoli sprouts.

Claim 75. (New) The method of claim 63, wherein said cruciferous seeds are broccoli seeds.